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☐ 1: J Microencapsul. 2005 Feb;22(1):37-46.

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Preparation of microencapsulated phase-change materials (MCPCMs) by means of interfacial polycondensation.

Tseng YH, Fang MH, Tsai PS, Yang YM.

National Cheng Kung University, Tainan, Taiwan, ROC.

Microcapsules for energy storage and/or heat transfer applications containing phase-change materials (PCMs-including n-pentadecane, n-eicosane and a paraffin wax) were successfully produced by emulsifying the PCMs as small droplets in an aqueous, water-soluble urea-formaldehyde pre-polymer solution substantially free of emulsifier while polymerizing the pre-polymer at the interface by acid-catalyst. The core/shell structured microcapsules were also characterized with size distribution analysis, scanning electron microscopy, FTIR spectrometry and differential scanning calorimetry.

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